



FY17

PSAP GRANT PROGRAM APPLICATION





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HOW TO APPLY/DEADLINE

The grant application is available and accessible from VITA ISP's website (<http://www.vita.virginia.gov/isp/default.aspx?id=8578>). Upon completion of the application, it is to be submitted to your Regional Coordinator. Any supporting documentation must also be submitted along with the application, including mandatory budgets for projects (if applicable).

After the close of the grant application cycle, a Grant ID and email receipt notification will be sent to the e-mail address listed on the application received.

All funding requests must be submitted using the grant application. Technical assistance is available from VITA's Public Safety Communications (PSC) staff throughout the grant process. The FY17 PSAP Grant Application Cycle starts July 1, 2015 and concludes on September 30, 2015 at 5:00 pm.

ALL APPLICABLE SECTIONS MUST BE COMPLETED IN ITS ENTIRETY OR THE APPLICATION WILL BE CONSIDERED INCOMPLETE AND NOT ACCEPTED FOR CONSIDERATION.



FY17 PSAP GRANT APPLICATION

PROJECT TITLE

U.P.S. (Uninterrupted Power Supply) for PSAP Critical Communications Equipment

GRANT APPLICANT PROFILE/PROJECT CONTACT

PSAP/HOST PSAP NAME: Augusta County ECC

CONTACT TITLE: Director

CONTACT FIRST NAME: Donna

CONTACT LAST NAME: Good

ADDRESS 1: 18 Government Center Lane

ADDRESS 2: P.O. Box 590

CITY: Verona

ZIP CODE: 24482

CONTACT EMAIL: dgood@co.augusta.va.us

CONTACT PHONE NUMBER: 540-245-5503

CONTACT MOBILE NUMBER: 540-487-9545

CONTACT FAX NUMBER: 540-245-5506

REGIONAL COORDINATOR: Stefanie McGuffin

HOST PSAP AND PARTICIPATING PSAPS/LOCALITIES

_____	_____
_____	_____
_____	_____
_____	_____

GRANT TYPE

Individual PSAP

Shared Services



TIER

- Out of Service
 Non-Vendor Supported*
- Technically Outdated*
 Strengthen
- Not Applicable

If technically outdated or non-vendor supported, application MUST include age and/or version of hardware/software.

VERSION: July 2010 Powerware 9315-30-50

YEARS of HARDWARE/SOFTWARE: Over 5 years old

Our current system is technically outdated and with the age of Augusta County's unit we are currently at a much higher risk of having a power failure. Our current model has been discontinued and replaced twice.

PRIORITY/PROJECT FOCUS CALL HANDLING EQUIPMENT

If "Other" selected, please specify: Uninterrupted power supply (U.P.S.) system to protect the reliability and security of the 9-1-1 system.

FINANCIAL DATA

Amount Requested: \$ 150,000.00

Total Project Cost: \$ 167,756.42



STATEMENT OF NEED

This statement should reference the relationship to the current funding priorities established by the Grant Committee and include evidence of any financial need, along with additional information on the impact on operational services; consequences of not receiving funding; inclusion of project in a long-term or a strategic plan; and local sustainability: The Augusta County ECC has seen growth in the recent years with staffing, mission critical systems and demands from public safety agencies and the public to provide additional services with limited resources. I would like to request the Board's consideration of an U.P.S. (Uninterrupted Power Supply). Our project is focused on ensuring a continuous supply of power, protection, maximum efficiency and performance to mission critical operations in the PSAP such as our call handling equipment, CAD, voice recorder, 9-1-1 mapping and generator. The U.P.S. system minimizes 9-1-1 failures and any disruptions of our critical equipment shutting down due to power interruptions. Our current system is technically outdated and with the age of Augusta County's unit we are currently at a much higher risk of having a power failure. Our current model has been discontinued and replaced twice. This projects supports Virginia Statewide Comprehensive 9-1-1 plan addressing the reliability, enhance support and protection of 9-1-1 assets. Augusta County is in the process of updating its current strategic plan and Continuity of Operations, and one of the focuses is on critical infrastructure, systems and notably power. These projects are identified but funding opportunities at the local level are not always available.

Describe how the grant will be maintained and supported in the future, if applicable.

The County would establish a multi-year maintenance contract. An annual maintenance contract includes emergency services, annual product maintenance, and updates. The UPS would be added to the ongoing budget and capital depreciation schedule to ensure that equipment is maintained and replaced before evolving to "out of service".



COMPREHENSIVE PROJECT DESCRIPTION

Identify the longevity or sustainability of the project.

Consistent maintenance of the system should allow for normal use until manufacturer's end of support. The system service life should be 10-15 years with maintenance performed under manufactures specifications which includes battery replacement around 3-5 years, AC capacitor replacement around 5 years and DC Capacitors around 7 years. The UPS is also on a monitoring system that is displayed in the communications center under staff supervision. It would also be on a service and routine maintenance schedule.



Describe how this project supports the Virginia Statewide Comprehensive 9-1-1 Plan.

The County request grant funding to have the ability to update its U.P.S. (Uninterrupted Power Supply) so that it can continue to keep its critical operations system up to date and functioning. This grant would support the PSAP as outlined in both “Impact to Operational Services” and “Inclusion of Project in a Long-Term or a Strategic Plan.” Augusta County has identified this upgrade to be a critical component of our strategic plan and Continuity of Operations. This provides the PSAP with a fully supported power source for our goal to transition to the NG 911 capabilities. Our upgrade also supports and benefits our neighboring PSAPS’s of Waynesboro and City of Staunton PSAPs that we provide a backup services for their 9-1-1. This grant follows the Virginia Statewide Comprehensive 9-1-1 plan’s vision with a rapid, and reliable and accurate emergency response and its Strategic Goal 5; by protecting the reliability of the security of the 9-1-1 system. It would have sustenance for our agency with a standard level of 9-1-1 emergency dispatch services to the public with mission critical equipment that will support the infrastructure operations of the communications. The 9-1-1 centers realize that the general public expects seamless, uninterrupted, reliable, “just in time” service that keeps up with the emerging technology innovations.

SHARED SERVICES (if applicable)

The relationship of the project to the participating PSAPs:
Our upgrade also supports and benefits our neighboring PSAPS’s of Waynesboro and City of Staunton PSAP’s that we provide a backup services for their 9-1-1 Centers.



Intended collaborative efforts:

2T

Resource sharing:

2T

How does the project impact the operational or strategic plans of the participating agencies:

2T



Provide a thorough, concise, and complete description of the project, including an outline of the goals and objectives, implementation strategy, and a work plan.

The goal of this project is to ensure the Augusta County PSAP and its critical communications equipment has the necessary power to continue a 24/7 operations. The Augusta County ECC has seen growth in the recent years with staffing, mission critical systems and demands from public safety agencies and the public to provide additional services with limited resources. This project is focused on ensuring a continuous supply of power, protection, maximum efficiency and performance to mission critical operations in the PSAP. Our current system is technically outdated and with the age of Augusta County's unit we are currently at a much higher risk of having a power failure. Our current model has been discontinued and replaced twice. Augusta County is in the process of updating its current strategic plan and Continuity of Operations, and one of the focuses is on critical infrastructure, systems and notably power.

Objective is to improve standardization of software, hardware and data through the implementation of scalable solutions that improve efficiency, reduce equipment failures, improve user functionality, improve disaster response and recovery activities, and provide cost savings.

Augusta ECC would work with the vendor to coordinate shipping, rigging, delivery, installation (equipment and labor), factory technician on-site testing and start-up. The implementation plan would be to minimize any down time. The new system would also be connected to monitoring device that displays any alarms, outages and testing.



**PROJECT TIMELINE FOR
SHARED SERVICES & INDIVIDUAL PSAP APPLICATIONS:**

For each applicable phase of the project, indicate the estimated completion date. Sample activities for each phase are included.

PROJECT PHASE	ESTIMATED COMPLETION DATE
<input checked="" type="checkbox"/> INITIATION (Project approved by appropriate stakeholders) Sample activities: project concept is documented, local board or governing authority approval or endorsement is received, PSAP grant application is filed, local budgets are obtained, appropriated grant funds are approved, and budgetary estimates are obtained.	08 / 01 / 16
<input checked="" type="checkbox"/> DESIGN/PLANNING (Project, system, or solution requirements are developed) Sample activities: requirements are documented, components to be purchased are identified, and general design is documented	09 / 30 / 16
<input checked="" type="checkbox"/> ACQUISITION (Selected system or solution is procured) Sample activities: RFP (or other bid related processes) are drafted, proposals are evaluated, contract is signed, purchase orders are issued, and quotes are obtained	11 / 18 / 16
<input checked="" type="checkbox"/> IMPLEMENTATION (Selected system or solution is configured and installed) Sample activities: purchased components are delivered and installed and training is performed	01 / 15 / 17
<input checked="" type="checkbox"/> TESTING/COMPLETION (Selected system or solution is tested and put in production) Sample activities: performance of system/solution is validated and system/solution goes "live"	02 / 25 / 17



BUDGET AND BUDGET NARRATIVE

List the planned expenditures to be made with grant funds. (NOTE: In lieu of a line item breakdown, an itemized cost schedule or detailed vendor prepared quote may be submitted as an attachment. However, budgetary quotes received from a particular vendor(s) during the application process do not commit the PSAP to use that vendor(s) once the grant is awarded.) Briefly explain the reason for each requested budget item and provide the basis for its cost. In addition, if contingency cost has been added, please identify the amount.

Proposal Price is for Eaton 93PM-100 Model 50kVA N+1480VAC UPS system with 33 minutes of runtime, MBS, but we have added a second PDU to give you N+1 with the UPS as well as the PDU. This system is also size to expand up to 100kVA if you needed the additional capacity. System has Eaton E39 VRLA Battery Module and 50kVA Power Distribution Unit. "Opt 3" includes the UPS and PDU as well as shipping, rigging, delivery, installation (equipment and labor), factory technician on-site testing and start-up. With this option we would run A and B circuits to your racks to give you redundancy that would be used by any dual corded IT equipment in the racks. Broken out at the bottom are the prices for the removal and disposal of the old Blue UPS as well as permits and drawings if required to do the work. See attached Proposal Quote. Below is a budget summary.

Option # 3 UPS Total \$155,470.71

Removing existing UPS \$5,000.00

Electrical Permits (if required) \$7,285.71

Total Costs: \$ 167,756.42

Requesting funds of \$150,000 to support our project.

Thanks for your consideration.

EVALUATION



How will the project be evaluated and measured for achievement and success:

Quick response time is essential in the world of E-911. But when a PSAP can't process calls, or is shut down because of power issues, it impacts the safety of the community, county, cities, or towns it serves, putting lives at risk. Now more than ever, downtime is simply not an option. The UPS will be on a monitoring system and achievement and success will be based on times when the UPS operates during power outages and supports the PSAP until the backup generator comes online. The system will be evaluated under a maintenance contract and the system will be tested on an automatic start up weekly.



CONSOLIDATION (Primary or Secondary) - (complete only if applicable)

How would a consolidation take place and provide improved service:

2T

How should it be organized and staffed:

2T

What services should it perform:

2T



How should policies be made and changed:

2T

How should it be funded:

2T

What communication changes or improvements should be made in order to better support operations:

2T



Proposal Number:	CPIQ2123
Proposal Expires:	Sep 20, 2015
Date:	Aug 20, 2015
CPI Project Number:	CPIPROJECT2505

Project Name: County of Augusta UPS

Proposal Prepared For:
Jacquelyn Zetwick
Augusta County
 18 Government Center Ln
 Verona, VA 24482

Your Account Manager:
Heather Chico
 703-726-9726 ext 127
 heather.chico@capitolpower.com

Terms	F.O.B.	Ship Via
Net 30	Destination	Best Way

Capitol Power is pleased to provide you with our proposal to meet your critical power requirements. We appreciate the opportunity to present a solution to your needs that offers comprehensive power protection, maximum efficiency, and unmatched performance.

We have included for your reference, an overview of our equipment's valuable benefits, comprehensive information on its ability to support your needs now and in the future, a complete bill of materials, and the terms and conditions of purchase.

Qty	Description	Price
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Option #1 UPS:

1 Eaton 93PM-100 Model 50kVA 480VAC UPS

*Output Rating: 50kVA (50kW at 1.0pf)
 Input Voltage: 480VAC, 3 phase, 3 wire, Single Feed
 Output Voltage: 480VAC, 3 phase, 3 wire
 DC Link Voltage: 432VDC
 Features: Integrated 3 Breaker Maintenance Bypass (MIB, BIB, MBP)
 Communications: Power Xpert Gateway Card (SNMP, ModBus, TCP/IP)
 Module Dimensions: 30" Wide, 42" Deep, 74" High
 Module Weight: 1094 Pounds
 Embedded Startup: 7x24 included
 Embedded Warranty: Full 1-Year including parts, labor, and expenses*

1 Eaton E39 VRLA Battery Module

*Link Voltage: 432VDC
 Total Runtime: 33 minutes at 50 kVA load
 Disconnect: 300A DC Breaker internal to cabinet
 Battery Module Dim: 32.3" Wide, 42" Deep, 74" High
 Battery Module Weight: 3,795 Pounds*

1 Eaton 50kVA Power Distribution Unit

*Transformer Rating: 50kVA, k20, 150°C Rise, TP1
 Cable Entry/Exit: Top or Bottom
 Panelboard: (2) 42-Pole Cutler Hammer Panelboards in Main Cabinet & (2) 42-Pole Cutler Hammer Panelboard in Side Facing Sidecar
 Monitoring: Eaton Branch Circuit Monitoring System
 Communications: Power Xpert Gateway Card (SNMP, ModBus, TCP/IP)
 Features: Air Skirt
 Heat Rejection: 8,738 Btu/Hr*

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Qty	Description	Price
	PDU Dimensions: 47.6" Wide, 35" Deep, 80" High PDU Weight: ~3,276 Pounds Embedded Warranty/Service Plan: Full 1-Year including parts, labor, and expenses	
1	UPS Installation 1. Receive, deliver and set in place (1) 50 KVA UPS, (1) battery cabinet and (1) 3 circuit breaker bypass panel and (1) 50 KVA PDU. This UPS, battery cabinet and bypass panel will sit where the existing non-working UPS currently sits. The PDU will replace an existing PDU on the floor above the UPS room. 2. The removal of the old Blue UPS has been excluded from this option. However, a cost to provide follows as an adder at the end of the options. 3. Furnish and install new UPS input and bypass feeders. 4. Furnish and install new PDU input feeder. 5. Reconnect all branch circuits currently being fed from the PDU. Extend the circuits as needed to reconnect to the new PDU. 6. Assist with UPS start up 7. All work to be completed during normal hours, Mon-Fri, 0700-1530. 8. Electrical permit is not included in this option. However, a cost to provide follows as an adder at the end of the options.	
1	Freight to VA/DC/MD Dock to dock, FOB factory	

Option #1 UPS Total: \$97,122.14

Option #2 UPS:

1	Eaton 93PM-100 Model 50kVA N+1 480VAC UPS Output Rating: 50kVA (50kW at 1.0pf) N+1 Input Voltage: 480VAC, 3 phase, 3 wire, Single Feed Output Voltage: 480VAC, 3 phase, 3 wire DC Link Voltage: 432VDC Communications: Power Xpert Gateway Card (SNMP, ModBus, TCP/IP) Features: 3-Breaker Maintenance Bypass Sidecar Features: Field upgradeable in 10kVA increments to maximum 100kVA/100kW N+1 Module Dimensions: 30" Wide, 42" Deep, 74" High Module Weight: 1,094 Pounds Embedded Startup: 7x24 included Embedded Warranty: Full 1-Year including parts, labor, and expenses	
1	Eaton E39 VRLA Battery Module Link Voltage: 432VDC Total Runtime: 33 minutes at 50 kVA load Disconnect: 300A DC Breaker internal to cabinet Battery Module Dim: 32.3" Wide, 42" Deep, 74" High Battery Module Weight: 3,795 Pounds	
1	Eaton 50kVA Power Distribution Unit Transformer Rating: 50kVA, k20, 150°C Rise, TP1 Cable Entry/Exit: Top or Bottom Panelboard: (2) 42-Pole Cutler Hammer Panelboards in Main Cabinet & (2) 42-Pole Cutler Hammer Panelboard in Side Facing Sidecar Monitoring: Eaton Branch Circuit Monitoring System Communications: Power Xpert Gateway Card (SNMP, ModBus, TCP/IP) Features: Air Skirt Heat Rejection: 8,738 Btu/Hr PDU Dimensions: 47.6" Wide, 35" Deep, 80" High PDU Weight: ~3,276 Pounds Embedded Warranty/Service Plan: Full 1-Year including parts, labor, and expenses	
1	UPS Installation 1. Receive, deliver and set in place (1) 100 KVA modular UPS, (1) battery cabinet and (1) 3 circuit breaker bypass panel and (1) 50 KVA PDU. This UPS, battery cabinet and bypass panel will sit where the existing non-working UPS currently sits. The PDU will replace an existing PDU on the floor above the UPS room.	

Qty	Description	Price
	<p>2. The removal of the old Blue UPS has been excluded from this option. However, a cost to provide follows as an adder at the end of the options.</p> <p>3. Furnish and install new UPS input and bypass feeders.</p> <p>4. Furnish and install new PDU input feeder.</p> <p>5. Reconnect all branch circuits currently being fed from the PDU. Extend the circuits as needed to reconnect to the new PDU.</p> <p>6. Assist with UPS start up</p> <p>7. All work to be completed during normal hours, Mon-Fri, 0700-1530.</p> <p>8. Electrical permit is not included in this option. However, a cost to provide follows as an adder at the end of the options.</p>	
1	<p>Freight to VA/DC/MD</p> <p>Dock to dock, FOB factory</p>	

Option #2 UPS Total: \$111,055.71

Option #3 UPS:

1	<p>Eaton 93PM-100 Model 50kVA N+1 480VAC UPS</p> <p>Output Rating: 50kVA (50kW at 1.0pf) N+1</p> <p>Input Voltage: 480VAC, 3 phase, 3 wire, Single Feed</p> <p>Output Voltage: 480VAC, 3 phase, 3 wire</p> <p>DC Link Voltage: 432VDC</p> <p>Communications: Power Xpert Gateway Card (SNMP, ModBus, TCP/IP)</p> <p>Features: 3-Breaker Maintenance Bypass Sidecar</p> <p>Features: Field upgradeable in 10kVA increments to maximum 100kVA/100kW N+1</p> <p>Module Dimensions: 30" Wide, 42" Deep, 74" High</p> <p>Module Weight: 1,094 Pounds</p> <p>Embedded Startup: 7x24 included</p> <p>Embedded Warranty: Full 1-Year including parts, labor, and expenses</p>	
1	<p>Eaton E39 VRLA Battery Module</p> <p>Link Voltage: 432VDC</p> <p>Total Runtime: 33 minutes at 50 kVA load</p> <p>Disconnect: 300A DC Breaker internal to cabinet</p> <p>Battery Module Dim: 32.3" Wide, 42" Deep, 74" High</p> <p>Battery Module Weight: 3,795 Pounds</p>	
2	<p>Eaton 50kVA Power Distribution Unit</p> <p>Transformer Rating: 50kVA, k20, 150°C Rise, TP1</p> <p>Cable Entry/Exit: Top or Bottom</p> <p>Panelboard: (2) 42-Pole Cutler Hammer Panelboards in Main Cabinet & (2) 42-Pole Cutler Hammer Panelboard in Side Facing Sidecar</p> <p>Monitoring: Eaton Branch Circuit Monitoring System</p> <p>Communications: Power Xpert Gateway Card (SNMP, ModBus, TCP/IP)</p> <p>Features: Air Skirt</p> <p>Heat Rejection: 8,738 Btu/Hr</p> <p>PDU Dimensions: 47.6" Wide, 35" Deep, 80" High</p> <p>PDU Weight: ~3,276 Pounds</p> <p>Embedded Warranty/Service Plan: Full 1-Year including parts, labor, and expenses</p>	
1	<p>UPS Installation</p> <p>1. Receive, deliver and set in place (1) 100 KVA UPS, (1) battery cabinet and (1) 3 circuit breaker bypass panel and (2) 50 KVA PDU's. This UPS, battery cabinet and bypass panel will sit where the existing old non-working UPS currently sits. One PDU will replace an existing PDU on the floor above the UPS room and a second PDU will be installed.</p> <p>2. The removal of the old Blue UPS has been excluded from this option. However, a cost to provide follows as an adder at the end of the options.</p> <p>3. Furnish and install new UPS input and bypass feeders.</p> <p>4. Furnish and install (2) new PDU input feeder.</p> <p>5. Reconnect all branch circuits currently being fed from the PDU. Extend the circuits as needed to reconnect to the new PDU.</p> <p>6. Furnish and install up to (84) branch circuits to customer racks from the new PDU to allow for an "A" "B" configuration.</p> <p>7. Assist with UPS start up</p>	

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 Phone 703-726-9726 Fax 703-726-9727 www.capitolpower.com

Qty	Description	Price
	8. All work to be completed during normal hours, Mon-Fri, 0700-1530. 9. Electrical permit is not included in this option. However, a cost to provide follows as an adder at the end of the options.	
1	Freight to VA/DC/MD Dock to dock, FOB factory	

Option #3 UPS Total: \$155,470.71

Optional Installation Adders:

1	Remove existing UPS (Optional) Provide rigging services to remove and dispose of existing Blue UPS no longer in service.	Option Price:	\$5,000.00
1	Electrical Permits (Optional) Provide electrical permit and Electrical drawings.	Option Price:	\$7,285.71

Specification Notes:

Proposal is based on Eaton Corporation standard offering. No specifications were provided.

Order Notes:

Prices listed above are valid for 30 days only.

Drawing package can be prepared and submitted in 1 Week from receipt of order.

Equipment fabrication time is approximately 4-6 Weeks after drawing approval or release of order and with approved credit.

Lead time is variable and will be confirmed at time of order release.

Unless otherwise noted, (1) set of O&M's is included. Additional copies are available in electronic format for free or hard-copy format for \$114 per manual.

Should you find this proposal acceptable and wish to place an order, please reference:

- + Capitol Power's Proposal Number CPIQ2123
- + Ship to address with site contact name and phone number
- + Tax exemption status
- + Special delivery requirements (preferred carrier, lift-gate, etc.)
- + Eaton Corporation c/o Capitol Power, Inc. - 20365 Exchange Street, Suite 240 Ashburn, VA 20147
- + Fax: 703-726-9727

The Eaton Corporation Terms and Conditions of Sale, attached, are a fundamental part of this proposal and will govern the sale of the product.

Accepted purchase orders with longer than a 6 month shipping date are subject to re-pricing based on the consumer price index on the date of acceptance of the purchase order. Commodity price increases on steel, copper, and lead may be added to the project cost if the delivery is longer than 6 months. Direct price increase from our suppliers on major components (batteries and switchgear) may be passed on directly to the customer. All orders will be subject to all applicable sales tax unless a current tax exemption certificate is on file covering that state shown as the ship to address or service location on your purchase order.

We are confident that once you have reviewed this information you will conclude that this proposal reflects the most cost effective power solution available today.

If you have any questions or need any additional information please call us at (703) 726-9726.

Best Regards,

Sam Kang
Application Engineer
Capitol Power, Inc.